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determinants, from 1846 to 1879," 94–122; IV: "Symmetric determinants that are not axisymmetric, from 1862 to 1879," 123–131; V: "Alternants from 1860 to 1879," 132–175; VI: "Compound determinants from 1862 to 1880," 176–207; VII: "Recurrents from 1858 to 1879," 208–247; VIII: "Wronskians from 1862 to 1874," 248–256; IX: "Jacobians from 1862 to 1877," 257–271; X: "Skew determinants and Pfaffians from 1862 to 1880," 272–283; XI: "Orthogonants from 1855 to 1879, 284–308; XII: "Persymmetric determinants from 1836 to 1879," 309–326; XIII: "Bigradients from 1859 to 1880," 327–362; XIV: "Hessians, from 1862 to 1879," 363–371; XV: "Circulants, from 1861 to 1880," 372–392; XVI: "Continuants from 1850 to 1880," 393–422; XVII: "Multilineants up to 1877," 423–428; XVIII: "Cubic and n-dimensional determinants up to 1880," 429–431; XIX: "Bordered determinants up to 1880," 432–446; XX: "Determinants whose elements are combinatory numbers up to 1880," 447–462; XXI: "Zero-axial determinants up to 1888," 463–468; XXII: "The less common special forms from 1839 to 1880," 469–496; "List of authors," 497–503.

R. C. ARCHIBALD.

College Teaching. Studies in Methods of Teaching in the College. Edited by PAUL KLAPPER with an Introduction by N. M. Butler. Yonkers-on-Hudson, New York, World Book Co., 1920. 16 + 583 pp.

This book contains twenty-eight chapters by as many different authors. Chapter VIII (pages 161–182) on "The Teaching of Mathematics" is by G. A. MILLER. The sub-headings of the chapter are as follows: Recent changes and some of their sources; Influence of researches in mathematics on methods of teaching; Range of subjects and preparation of students; Variety of college courses in mathematics; History of college mathematics; Relation of mathematics in secondary school and college; Aims of college mathematics: methods of teaching; Advanced work in college mathematics; Mathematics and technical education; Preparation of the college teacher of mathematics; The mathematical text-book.

The Teaching of Arithmetic. By JOHN C. STONE. Chicago, Benj. H. Sanborn & Company, 1918. 262 pp. Price $1.32.

This presents for teachers, supervisors, and those preparing to teach, "a discussion of the aims and purposes of a course in arithmetic and of the methods of presenting each topic that should find a place in our elementary schools." The final chapter, on "Measuring results," gives an account of the standard arithmetic tests developed during the last twenty years.

NOTES.

In T. ZIEHEN, *Lehrbuch der Logik auf positivistischer Grundlage mit Berücksichtigung der Geschichte der Logik*, (Bonn, A. Marucs & E. Webers Verlag, 1920), are discussed: "Die mathematische (symbolistische) Logik" pp. 227–236 including a bibliography of about 35 authors; "Mathematische Grundlegung der Logik," pp. 410–416.

A new list of the members of the Mathematical Association (England) was published in April, 1920. It contains the names of 9 "honorary members," of 747 "ordinary members", and of 83 "associates" of the London, Yorkshire, North Wales, and Sydney (New South Wales) Branches.